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ENGINEERING CHANGE NOTICE

Page 1 of

1. ECN XXXXXXXXXXXX Proj. B-714-150

4. Date 3. Originator's Name, Organization, MSIN, and Telephone No. Z. ECH Category (mark one) 09/23/92 M. A. McLean, KEH, E6-42, 6-5529 Supplemental [X] 7. Impact Level Direct Revision (3 6. Bldg./Sys./Fac. No. S. Project Title/No./Work Order No. [] Change ECN 3*හ /*SC−2 218-E-16. Temporary [] GROUTED WASTE DISPOSAL Standby FACILITIES B-714/ER8007 Supersedure () 10. Related PO No. Cancel/Void 9. Related ECN No(s). 8. Document Numbers Changed by this ECN (includes sheet no. and rev.) N/A N/A SEE BLOCK 12 11d. Restored to Original 11c. Modification Work Complete 11a. Modification Work 11b. Work Package Condition (Temp. ECN only) No. N/A N/A N/A Yes (fill out Blk. 11b) Cog. Engineer Signature & Date [X] No (NA Blks. 11b, Cog. Engineer Signature & Date 11c, 11d)

BLOCK 8: Drawings H-2-77596 SH I, REV 1 H-2-77630 SH I, REV 0 Specification B-714-C2, Rev 1 (V-B714C2-003)

22 23 24 25 26 DESCRI

APPROVED FOR PUBLIC RELEASE

SC-2: Item 2 only

SC-3: Item 1 & 3

TKE 9-24-42

13a. Justification Criteria Change [X] Design Improvement [X] Environmental [] (mark one)

As-Found [] Facilitate Const. [X] Const. Error/Omission [] Design Error/Omission [X]

13b. Justification Details

0

12. Description of Change

(FC-Items 38 & D): These changes provide flexibility to the contractor in selecting a rigid foam-in-place product that meets minimum requirements. (FC-Items 3C & E): The K-Factor requirement is deleted because it is not critical for piping. Compressive strength perpendicular to rise requirement is replaced by shear strength perpendicular requirement. This gives assurance on foam strength, without requiring Contractor to JUSTIFICATION DETAILS CONTINUED ON PAGE 3

I L T	1 M 1			
14. Distribution, lines KEH DISTRIBUTION	on fame, MSIH	, and no. of copies) J. K. Epperley	R1-29	
Const Doc Cntl		K. S. McCullough	N1-83	
-		R. K. Sanan [4]	R4-05	- 11
WHC DISTRIBUTION	N	T. W. Staehr (PE)	R3-27	
Project Files	R1-28	J. E. Vanbeek	R3-27	[]
M. W. Cling	H4-57	G. H. Weissberg	R3-10	
T. K. Cordray	S1-54	<u>DOE</u> .		- 11
57A.6		A. G. Lassila	<u> </u>	

DATE SEP 3 6 1992

RELEASE STAMP

OFFICIAL PEUPAGE

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5TA . 10 A-7900-013-2 (06/92) GEF095

Lupe Garza 46-76

	<u> </u>									1. ECM (use no. from pg. 1)			
ENGINEERING CHANGE NOTICE					Page 2 of 6			B-714-150					
								Schedule Impa	ct (d	ays)			
	esign 16. Cost Impact					CONSTRUCTION							
ENGINEERING							Improvement []/						
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	5. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.												
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	19. Other Affected	Documents:	(NOTE: DO		ed below will	not be	геч	ised by this	EC	(.) Signatures	belo	OM .	
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ENGINEERING CHANGE NOTICE CONTINUATION SHEET

Page 3 of 6

B-714-150

1. ECM

JUSTIFICATION DETAILS (Cont.)

have vendor provide additional testing of product.
(DE-Item 3F): Pneumatic Leak Test pressure is changed to meet the requirement of the ASME

B31.3 Code. (FC-Items 1 & 2A, B, & D): To provide more space for coiling the sensing cable.

(DI-Item 3A): This change makes the specification requirements clear regarding threaded

joints, pipe sealant, and seal welding.
(CC-Item 2A & C): WHC LOI #27 (#9255880, dated 08-05-92). Delete piping, cathodic protection & leak sensing cable on all piping intended for future vaults.

CHANGES MADE TO SAFETY CLASS 2 ITEMS DO NOT IMPACT THE INTEGRITY OF THE ORIGINAL FACILITY DESIGN.

1) <u>H-2-77596 Sh 1, Rev 1</u>

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PLAN (Z D7): Modify as shown on page 5 of this ECN.

2) <u>H-2-77630 Sh 1, Rev 0</u>

- A) Revise Sensing Cable Arrangement Plan as shown on page 6 of this ECN.
- B) Revise Note 2 as follows: replace "...END OF PIPE..." with "...DESIGNATED PULL POINTS...".
- C) Delete Note 6 and replace with "NOT USED".
- D) Revise Note 7 by changing "PP-11" to "PP-11a".

CONTINUED ON PAGE 4

ENGINEERING CHANGE NOTICE CONTINUATION SHEET

Page 4 of

B-714-150

1. ECN

3) SPECIFICATION B-714-C2, REV 1, SECTION 15493

- A) Paragraph 2.1.2: Change to read as:
 - 2.1.2 Pipe Joint Sealant for Threaded Joints.
 - a. Material: Chesteron "Goldend" No. 7298; Federal Process Company "JC-30"; Lake Company "Slic-Tite" with teflon.
 - b. Application: A threaded joint designated to be seal welded shall be made up without sealant. A joint containing sealant which leaks during leak testing may be seal welded, provided all sealant is removed from exposed threads.
- B) Paragraph 2.1.5.1: Change "2.2 to 2.8 lb/cu ft" to "2.2 lb/cu ft minimum"
- C) Paragraph 2.1.5.2: Delete "and 27 psi perpendicular to rise".
- D) Paragraph 2.1.5.4: Change "90 to 95 percent" to "90 percent minimum".
- E) Paragraph 2.1.5.6: Replace with new paragraph as follows:
 - 2.1.5.6 Minimum shear strength: 35 psi perpendicular when tested in accordance with ASTM C 273.
- F) Paragraph 3.2.3.3.a: Change "90" psig Test Pressure to "66" psig.
- G) Paragraph 1.1.1.4:

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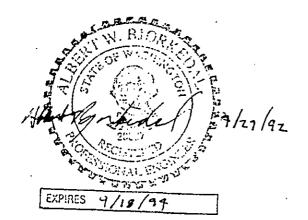
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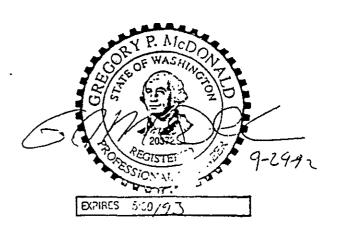
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- Delete C 518-85 reference in its entirety.
- Add C 273-61 (1988) Standard Test Method for Shear Properties in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores

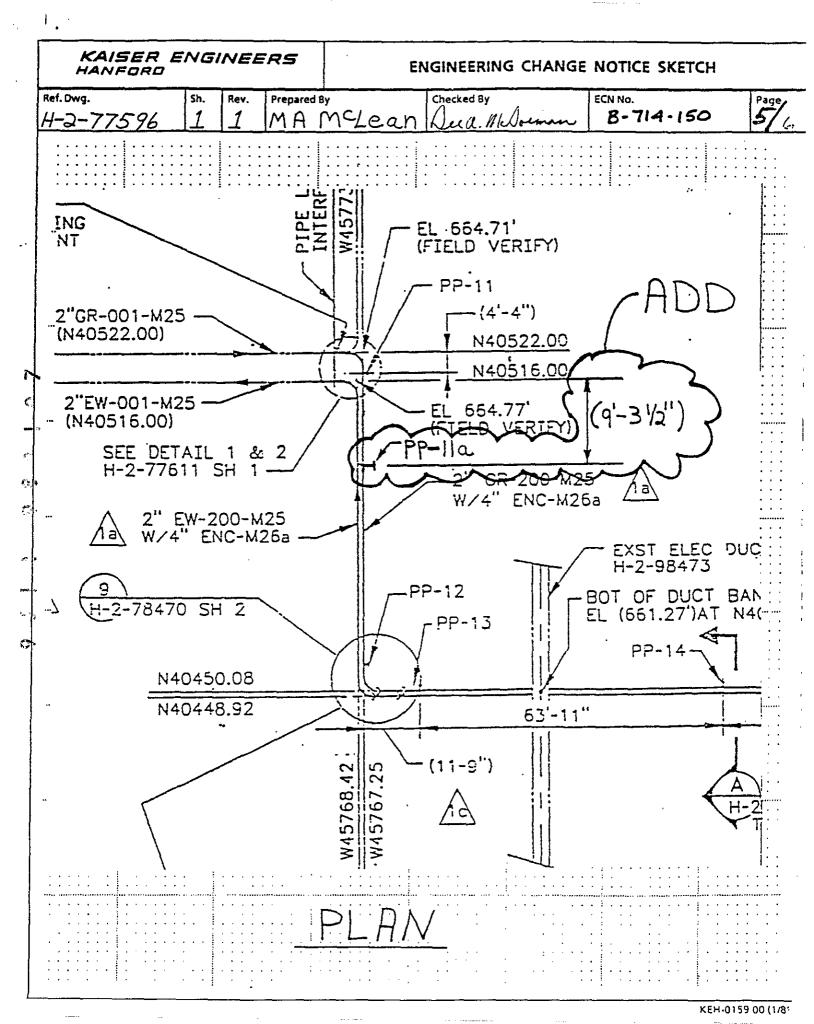
REGISTERED ENGINEER REVIEW PIPING (Item 1 & 3)



REGISTERED ENGINEER REVIEW ELEC (Item 2)



A-7320-036.2 (11/88) (EF) GEF094 Engineering Change Notice Continuation Sheet



ENGINEERING CHANGE NOTICE SKETCH KAISER ENGINEERS HANFORD ECN No. Checked By Ref. Dwg. Prepared By 6/6 B-714-150 a. A. S. TE COYNE H-2-77630 0 REMOVE EXISTING SENSING CABLE SEE NOTES 3 & 7 -NIC DELETE -PULL POINT (TYP) PP-10 LOCATED AT VAULT PT PP-19 NSING CABLE SEE NOTE 6 (TYP) PP-17 SEE DETAIL 8 FIELD CONNECTION (TYP) PP-12 PP-15 PP-16 PP-13 SEE NOTES SEE NOTES 2 & 3 -SEE OETAIL A PP-20 REVISE. -REVISE PP- 23 END TERMINATION (TYP) (SEE DWG H-2-77597, DET PP-24 LOCATED AT VAULT PIT 218-E-16-103-C PP-25 PP-26 LOCATED AT VAULT PIT 218-E-16-104-C PP-27 PP-35 REVISE . SEE NOTE 6 PP-33 PP-28 PP-37 PP-29 PP-32 SEE NOTES 2 & CONNECTORS ON CONECTORIZED JUMPER CABLE (SEE NOTE 4) (TYP) DELETE. PP-36 LOCATED AT VAULT PIT 218-E-16-105-C SENSING CABLE ARRANGEMENT PLAN SEE DRAWINGS H-2-77596 & H-2-78467 FOR PIPING PLANS

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KEH-0159.00 (1/88) ACAD B714/ECNSENZG

ECNB- MAGISO

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